



# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

:: MEGHALAYA ::

'Silviculture Building', Lower Lachumiere, Shillong - 793 001

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## MINUTES OF THE MEETING OF THE SEIAA, MEGHALAYA,

HELD ON 24<sup>th</sup> November, 2021, AT 12:30 PM,

VENUE: OFFICE CHAMBER OF THE CHAIRMAN.

### Members present in the Meeting:

1. Shri T.T.C. Marak, IFS (Retd.).....Chairman, SEIAA
2. Dr. H.J. Syiemlieh, Professor, Dept. of Geography, NEIU ..... Member, SEIAA
3. Shri W.S. Manner, IFS, CCF, SF & E .....Member Secy.  
SEIAA

### **Proceedings:**

The Meeting was chaired by Shri T.T.C. Marak, Chairman, SEIAA. At the outset, the Chairman welcomed the Members and then invited the Member Secretary to present the Agenda points for discussion.

**Agenda 1: Action taken Report** - The Member Secretary informed about the action of the decisions taken in the last SEIAA's meeting held on 1<sup>st</sup> November, 2021 and circulated the Minutes of the said meeting. The meeting approved the actions taken and confirmed the proceedings.

### **Agenda 2: Grant of Term of Reference (TOR)**

#### **2.1 Proposal No.SIA/ML/MIN/67148/2021 submitted by Smt. Keepcymerial Tymmeniang**

The Project Proponent, Smt. Keepcymerial Tymmeniang submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/67148/2021 for Term of Reference for Ruieng Limestone Mine for mining of Lime stone for an area of 2.80 hectares. The proposal is for mining of lime stone to be used in kilns for construction purposes. The project falls under Schedule 1(a) of category B1 of EIA Notification 2006. The mining lease area is located at Ruieng, Lynti Dkhar Area, Sohbar Sirdarship, BPO Sohbar, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 11'4.91"N	91° 44'52.93"E
2	25° 11'5.87"N	91° 44'52.99"E
3	25° 11'6.46"N	91° 44'52.45"E
4	25° 11'6.82"N	91° 44'52.52"E
5	25° 11'8.95"N	91° 44'49.29"E
6	25° 11'8.78"N	91° 44'48.93"E
7	25° 11'9.88"N	91° 44'47.77"E
8	25° 11'9.71"N	91° 44'46.96"E
9	25° 11'8.88"N	91° 44'46.36"E
10	25° 11'7.77"N	91° 44'45.21"E
11	25° 11'6.77"N	91° 44'43.49"E
12	25° 11'6.07"N	91° 44'42.90"E
13	25° 11'5.40"N	91° 44'42.81"E
14	25° 11'4.87"N	91° 44'43.06"E

The proposed mining area is on lease for a period of 30 years vide Lease Agreement made on the 21<sup>st</sup> June 2019 certified by Notary, East Khasi Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri-Bhoi (T) Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt.IV/5088 dated Shillong, the 1<sup>st</sup> February, 2021 and letter of Intent vide letter No.KH/8/ML/Limestone/68/5103, dated Shillong, the 1<sup>st</sup> February, 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/121/2021/08 dated Shillong, the 4<sup>th</sup> August 2021 which states that there are twelve (12) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of thirteen mines is summed up to 28.1715 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/121/2021/03 dated Shillong, the 2<sup>nd</sup> July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 1,04,639 TPA with a project cost of Rs.28.8 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 1046385 Tonnes with an average annual production of 104639 (1046385/10=104639) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 523180 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e. (1046385-523180) = 523205 Tonnes would be worked out in further 5 years. Therefore, the life of the mine will be 10 years (five years in plan period + five years in conceptual period).

#### **Recommendation:**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.
3. The distance between the boundary of Smt. Keepcymerial Tymmeniang, project proponent with adjoining approved mining plan of Shri Arbis Tangdhara and Shri Marbat Dohkrut shown as "1"(one) and "2" meters in the Cluster Certificate, issued vide No.DMR/MM/121/2021/08; dated Shillong, the 4<sup>th</sup> August 2021. Accordingly, as per provisions of Section 111[(2)] of Metalliferous Mines Regulations, 1961 no working is permitted within a distance of minimum 7.5 metres on both sides from the boundary of adjoining mine. This aspect should be highlighted in the EIA/EMP report, public consultation report etc, seeking for EC.
4. Since the distance between the proposed mine and adjoining mine(s) in the said cluster is "1" one and "2" metres and (7.5 metre after maintaining minimum 7.5 metres from adjoining mine as mentioned in clause 3 above) and nature of Over Burden(OB) is not known, as a precautionary measure, height of the 1<sup>st</sup> Bench is to be kept low, preferably within 1-3 metre maximum while maintaining width of the bench at 06 -7.5 metre.

5. A Comprehensive Environment Management Plan and Regional Environment Management Plan are to be furnished in the EIA/EMP.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

## 2.2 Proposal No. SIA/ML/MIN/67601/2021 submitted by Smt. Tangkame D. Marak

The Project Proponent, Smt. Tangkame D. Marak submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/67601/2021 for Term of Reference for Rochonpara Stone Mine for an area of 10 hectares. The proposal is for mining of lime stone to be used for construction of buildings & making/dressing of roads. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Rochonpara, P.O. Dhanua, P.S. Tura, West Garo Hills District, Meghalaya and toposheet Survey of India No.78 G/14 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 41'37.00"N	89° 56'12.00"E
2	25° 41'42.20"N	89° 56'18.40"E
3	25° 41'50.80"N	89° 56'08.10"E
4	25° 41'41.90"N	89° 56'01.20"E
5	25° 41'38.10"N	89° 56'05.60"E
6	25° 41'40.80"N	89° 56'07.20"E
7	25° 41'40.20"N	89° 56'09.70"E

The proposed mining area is on lease for a period of 10 years vide Deed of Lease Agreement made on the 11<sup>th</sup> September 2020 certified by Notary, West Garo Hills Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West & South-West Territorial Division, Tura vide letter No.B/16/VII/NOC/MMMCR/1148-50 dated Tura, the 3<sup>rd</sup> March, 2021 and letter of Intent vide letter No.MFG.39/42/LOI/MMMCR/2016/2815, dated Shillong, the 6<sup>th</sup> July, 2021 respectively.

The project proponent obtained a cluster certificate from the Division Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2019/ dated Williamnagar, the 27<sup>th</sup> August 2021 which states that there are four (4) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of five mines is summed up to 13.27 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Division Mining Officer, East Garo Hills District, Williamnagar vide letter No.DMO-W/MP/69/2021/47 dated Shillong, the 03<sup>rd</sup> August 2021. The Mining Plan has been prepared to extract lime stone at the rate of 8,18,161 TPA with a project cost of Rs.66 lakhs and the operations will be open cast, mechanized method of mining.

As per the mining plan, the total mineable reserve would be 12272411 Tonnes with an average annual production of 818161 (12272411/15 = 818161) Tonnes and the production of stone in first 5 years will be 4090993 Tonnes. The average annual production of stone may be different from the annual production of first 5 years and the balanced mineable reserve for last 10 years would be 8181418 Tonnes. So life of the mine will be 15 years (five years plan period + ten years conceptual period).

### Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-

Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

### 2.3 Proposal No. SIA/ML/MIN/67625/2021 submitted by Shri. Soshin Laitmon

The Project Proponent, Shri. Soshin Laitmon submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/67625/2021 for Term of Reference for Ri Jyrkha Limestone Mine for mining of Lime stone for an area of 0.75 hectares. The proposal is for mining of lime stone to be used in kilns for manufacturing of lime used as building materials. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Ri-Jyrkha, Mawlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 06.20"N	91° 41' 06.10" E
2	25° 12' 01.30"N	91° 41' 06.00"E
3	25° 12' 00.00"N	91° 41' 04.20"E
4	25° 12' 04.80"N	91° 41' 04.30"E

The proposed mining area is on lease for 30 years vide Lease Deed made on the 5<sup>th</sup> November 2020, certified by Notary, Govt of Meghalaya, East Khasi Hills District.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & RiBhoi Territorial Division, Shillong, vide letter NO.KH/8/NOC/Limestone/41/Pt.IV/4716, dated Shillong, the 5<sup>th</sup> March 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/4733, dated Shillong, the 5<sup>th</sup> March, 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/115/2021/13 dated Shillong, the 4<sup>th</sup> August 2021 which states that there are four (4) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of five mines is summed up to 7.475 hectares. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/115/2021/8 dated Shillong, the 12<sup>th</sup> July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 34,406 TPA with a project cost of Rs.22.5 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve would be 240840 Tonnes with an average annual production of 34406 (240840/7 = 34406) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 171940 Tonnes of the total mineable reserve i.e. (240840 – 171940) = 68900 Tonnes would be exhausted in further 2 years @ 34450 Tonnes per annum. Therefore, the life of the mine will be 7 years (Five years in plan period + Two years in conceptual period).

#### Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to



this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

#### **2.4 Proposal No.SIA/ML/MIN/67796/2021 submitted by Shri. Ivayle Mickdenov Ch. Sangma**

The Project Proponent, Shri. Ivayle Mickdenov Ch. Sangma submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/67796/2021 for Term of Reference for Rochonpara Stone Mine for mining of Boulder stone for an area of 10 hectares. The proposal is for mining of Boulder stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Rochonpara, P.O. Dhanua, P.S. Tura, West Garo Hills District, Meghalaya and toposheet Survey of India No.78 G/14 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 41' 05.00"N	89° 56' 32.40"E
2	25° 41' 06.20"N	89° 56' 34.00"E
3	25° 41' 19.00"N	89° 56' 35.90"E
4	25° 41' 10.10"N	89° 56' 45.90"E
5	25° 41' 00.20"N	89° 56' 35.30"E

The proposed mining area is on lease for 10 years vide Deed of Lease made on the 1<sup>st</sup> September, 2020 certified by Notary, West Garo Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West & South-West Garo Hills (T) Division, Tura, Shillong, vide letter No. B/16/VII/ NOC/MMMCR/1/51-53 dated Tura, the 3<sup>rd</sup> March 2021 and letter of Intent vide letter No.MFG.39/42/LOI/MMMCR/2016/2806, dated Shillong, the 6<sup>th</sup> July, 2021 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar, Meghalaya, vide letter No.DMR-W/MP/15/2019/ dated Williamnagar, the 27<sup>th</sup> August 2021 which states that there are five (5) approved mining plans lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of six mines is summed up to 16.05 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, East Garo Hills District, Williamnagar vide letter No.DMO-W/MP/71/2021/48 dated Williamnagar, the 3<sup>rd</sup> August 2021. The Mining Plan has been prepared to extract lime stone at the rate of 802626 TPA with a project cost of Rs.65 lakhs and the operations will be open cast, mechanized method of mining.

The total mineable reserve would be 12039393 Tonnes with an average annual production of 802626 (12039393/15 = 802626) Tonnes and production of stone in first 5 years will be 4012756 Tonnes. The average annual production of first 5 years and the balanced

mineable reserve for last 10 years would be 8026637 Tonnes. So life of the mine will be 15 years (five years plan period + ten years conceptual period).

### Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

### 2.5 Proposal No.SIA/ML/MIN/67807/2021 submitted by Smt. Sylva R. Sangma

The Project Proponent, Smt. Sylva R. Sangma submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/67807/2021 for Term of Reference for Sylva Limestone Mine for mining of Lime stone for an area of 1.7 hectares. The proposal is for mining of lime stone to be used in kilns for manufacturing of lime and construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Nongkulang Area, Khonjoy, South West Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 23.10"N	91° 04' 29.40"E
2	25° 12' 21.70"N	91° 04' 34.06"E
3	25° 12' 20.10"N	91° 04' 35.00"E
4	25° 12' 16.80"N	91° 04' 30.06"E

The proposed mining area is on lease for 10 years vide Deed of Lease made on the 29<sup>th</sup> August 2017, certified by District Registrar, South West Khasi Hills District, Mawkyrwat.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, SF & Territorial Division, West & South West Khasi Hills, vide letter No.T/W&SW/20/NOC(L)/41, dated Nongstoin, the 12<sup>th</sup> January 2021 and letter of Intent vide letter NO. T/ W&SW/20-21/LS/138/ML/59, dated Nongstoin, the 14<sup>th</sup> January, 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/110/2021/09 dated Shillong, the 16<sup>th</sup> July 2021 which states that there are eleven (11) approved mining plans lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of twelve mines is summed up to 21.31 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/110/2021/05 dated Shillong, the 21<sup>st</sup> April 2021. The Mining Plan has been

prepared to extract lime stone at the rate of 60000 TPA with a project cost of Rs.27.5 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mine has approved mineable reserves excluding safety barrier of 10,46,744 MT but after leaving residual benches, the net total mineable reserves comes to 7,49,889 MT. As the mine is targeted to produce 60,000 MT of limestone per annum, the anticipated life of the mine will be 12.5 years, say 13 years.

### **Recommendation:**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

### **2.6 Proposal No.SIA/ML/MIN/68783/2021 submitted by Shri. Tamdor Sing Nadon (M/S Sohmluh Limestone Mine)**

The Project Proponent, Shri Tamdor Sing Nadon submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/68783/2021 for Term of Reference for Sohmluh Limestone Mine for mining of Lime stone for an area of 2.1 hectares. The proposal is for mining of lime stone to be used in kilns for construction purposes. The project falls under Schedule 1(a) of category B1 of EIA Notification 2006. The mining lease area is located at Sohmluh, Tempohreng Village, Wahlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 10'36.9"N	91° 43'11.4"E
2	25° 10'38.5"N	91° 43'04.5"E
3	25° 10'42.0"N	91° 43'03.3"E
4	25° 10'41.1"N	91° 43'10.2"E

The proposed mining area is on lease for a period of 30 years vide Lease Deed made on the 18<sup>th</sup> day of June 2019 certified by Sub-Registrar, Sohra, East Khasi Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri-Bhoi (T) Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt.IV/585 dated Shillong, the 30<sup>th</sup> April, 2021 and letter of Intent vide letter No.KH/8/ML/Limestone/68/591, dated Shillong, the 30<sup>th</sup> April, 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/138/2021/07 dated Shillong, the 7<sup>th</sup> October 2021 which states that there are ten (10) approved mining plan lying

within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of twelve mines is summed up to 26.04 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/138/2021/2 dated Shillong, the 28<sup>th</sup> September 2021. The Mining Plan has been prepared to extract lime stone at the rate of 98,318TPA with a project cost of Rs.24.8 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 983183 Tonnes with an average annual production of 98318 (983183/10=98318) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 492219 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e. (983183-492219) = 490964 Tonnes would be worked out in further 5 years @98193 Tonnes. Therefore, the life of the mine will be 10 years (five years in plan period + five years in conceptual period).

### **Recommendation:**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.
3. A Comprehensive Environment Management Plan and Regional Environment Management Plan are to be furnished in the EIA/EMP.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

### **2.7 Proposal No.SIA/ML/MIN/68793/2021 submitted by Shri. Tamdor Sing Nadon (M/S Tyngwai Bah Limestone Mine)**

The Project Proponent, Shri. Tamdor Sing Nadon submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/68793/2021 for Term of Reference for Tyngwai Bah Limestone Mine for mining of Lime stone for an area of 1.18 hectares. The proposal is for mining of lime stone to be used in kilns for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Tyngwai Bah, Sohbar village, Elaka Sohbar Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.780/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 10'37.48"N	91° 43'37.94"E
2	25° 10'37.38"N	91° 43'36.02"E
3	25° 10'40.98"N	91° 43'35.69"E
4	25° 10'44.30"N	91° 43'36.40"E
5	25° 10'44.49"N	91° 43'37.95"E



The proposed mining area is on lease for a period of 30 years vide Lease Deed made on the 8<sup>th</sup> July 2019 certified by Sub-Registrar, Sohra, East Khasi Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri-Bhoi (T) Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt.IV/2099 dated Shillong, the 6<sup>th</sup> August, 2021 and letter of Intent vide letter No.KH/8/ML/Limestone/68/2098, dated Shillong, the 6<sup>th</sup> August, 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/137/2021/07 dated Shillong, the 19<sup>th</sup> October 2021 which states that there are five (5) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of six mines is summed up to 7.24 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/137/2021/2 dated Shillong, the 28<sup>th</sup> September 2021. The Mining Plan has been prepared to extract lime stone at the rate of 25,027 TPA with a project cost of Rs.21.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 250266 Tonnes with an average annual production of 25027 ( $250266/10=25027$ ) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 125742 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e. ( $250266-125742$ ) = 124524 Tonnes would be worked out in further 5 years @24905 Tonnes. Therefore, the life of the mine will be 10 years (five years in plan period + five years in conceptual period).

### **Recommendation:**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

## **Agenda 3: Grant of Environmental Clearance (EC)**

### **3.1 Proposal No.SIA/ML/MIN/225388/2021 submitted by Shri. Piwel Lamare (M/S Thlunara limestone mine)**

The Project Proponent, Shri. Piwel Lamare submitted online application vide proposal No.SIA/ML/MIN/225388/2021 for Environmental Clearance for Thlunara Limestone Mine of for an area of 1.86 hectares. The proposal for mining of limestone for construction industry through stone crushing and Lime Kilns/plants and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Lumshnong, East Jaintia Hills, District, Meghalaya and toposheet Survey of India No. 83 C/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°10'39.1"N	92°20'58.5"E
2	25°10'38.7"N	92°20'57.6"E
3	25°10'38.4"N	92°20'56.8"E
4	25°10'38.0"N	92°20'55.0"E
5	25°10'35.1"N	92°20'56.2"E
6	25°10'33.7"N	92°20'58.1"E
7	25°10'34.0"N	92°21'00.0"E
8	25°10'34.4"N	92°21'00.8"E
9	25°10'37.7"N	92°21'00.6"E

The proposed mining area belongs to the project proponent as per Land holding certificate vide Memo No.JHADC/REV/LHC/7/107/2018 dated Jowai, the 11<sup>th</sup> January 2021.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai, vide letter No.JH/IR/F.C/RO/2019-20/985/B/285 dated Jowai the 17<sup>th</sup> May, 2021 and letter of Intent vide No.JH/P.L/M.L/L.S/2021-22/B/365 dated Jowai, the 1<sup>st</sup> July 2021.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/47/MM/Mining Plan/2021-22/141 dated Jowai, the 23<sup>rd</sup> August 2021 where it is mentioned that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/47/MM/Mining Plan/2021-22/140 dated Jowai, the 5<sup>th</sup> August 2021. The Mining Plan has been prepared to extract limestone at 167675 MTPA with a project cost of Rs. 20.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves of limestone are of the order of 8,90,000 MT. The production period of this mining plan will be around 8,38,350 MT in 5 years. The balance reserves will be  $890000 - 838350 = 51650$  MT. If the yearly production target is 167675 MT, then the balance reserves will be sufficient for  $51650 / 167675 = 0.30$  years. Thus total life of the mine is  $5 + 0.30 = 5.30$  or say 5 years.

### Recommendation

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

- 1) According to provisions of Section 111[(2)] of *Metalliferous Mines Regulations, 1961* no working is permitted within a distance of *minimum 7.5 meters* from the boundary.
- 2) The Project Proponent has to construct a wall of requisite height along the periphery to ensure that no run off to the nearby agricultural land human settlement, water bodies takes place.
- 3) A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing

water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.

- 4) Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
- 5) If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
- 6) In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
- 7) To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
- 8) CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
- 9) Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
- 10) GIS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
- 11) A board containing the name of Project, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be install in the entrance to the mining site.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

### 3.2 Proposal No.SIA/ML/MIN/226860/2021 submitted by Shri. Crozer G Momin

The Project Proponent, Shri. Crozer G Momin submitted online application vide proposal No.SIA/ML/MIN/226860/2021 for Environmental Clearance for Chigisim Boulderstone Mine for mining of boulder stone for an area of 1.65 hectares. The proposal for mining of boulder stone is to be for construction and masonry work and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Rongjeng, Christianpara, P.O. Rongjeng, East Garo Hills District, Meghalaya and toposheet Survey of India No. 78 K/14 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°38'21.49"N	90°48'11.72" E
2	25°38'21.39"N	90°48'09.06" E
3	25°38'17.28"N	90°48'09.47" E
4	25°38'15.80"N	90°48'09.30" E
5	25°38'13.90"N	90°48'08.40" E
6	25°38'14.33"N	90°48'10.85" E
7	25°38'16.79"N	90°48'12.16" E

The proposed mining area belongs to the project proponent as per the Gift Deed certified by the Notary, East Garo Hills District, made on 15<sup>th</sup> September 2020.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East and North Garo Hills (T) Division, Williamnagar, vide letter No.B/50/II/945-952 dated Williamnagar the 9<sup>th</sup> September, 2020 and letter of Intent vide No.B/50/III/1242-1251 dated Williamnagar the 23<sup>rd</sup> October, 2020.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills District, Meghalaya vide letter No.DMO-W/MP/15/2019/52 dated

Williamnagar, the 11<sup>th</sup> August 2021 where it is mentioned that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Divisional Mining Officer, East Garo Hills, Meghalaya vide letter No.DMO-W/MP/55/2020/33 dated Williamnagar, the 12<sup>th</sup> July 2021. The Mining Plan has been prepared to extract boulder stone at 80260TPA with a project cost of Rs. 20.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves of boulder stone are of the order of 5,80,000 MT. The production in the period of this mining plan will be around 4,01,280 MT in 5 years. The balance reserves will be  $580000 - 401280 = 178720$  MT. If the yearly production target is 80260 MT, then the balance reserves will be sufficient for  $178720 / 80260 = 2.226$  years. Thus total life of the mine is  $5 + 2.226 = 7.226$  or say 8 years.

### **Recommendation**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

- 1) According to provisions of Section 111[(2)] of *Metalliferous Mines Regulations, 1961* no working is permitted within a distance of *minimum 7.5 meters* from the boundary.
- 2) A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
- 3) Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
- 4) If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
- 5) In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
- 6) To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
- 7) CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
- 8) Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
- 9) GIS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
- 10) A board containing the name of Project, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be install in the entrance to the mining site.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and



then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

### 3.3 Proposal No.SIA/ML/MIN/232450/2021submitted by Shri. Teilang Pde

The Project Proponent, Shri. Teilang Pde submitted online application vide proposal No.SIA/ML/MIN/232450/2021 for Environmental Clearance for Kalagaw Limestone Mine for an area of 1.97 hectares. The proposal for quarrying of limestone is to be use for making lime by lime kiln for building materials and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Nonghyllam, South West Khasi Hills District, Meghalaya and toposheet Survey of India No. 78 O/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°12'17.22"N	91°6'23.28" E
2	25°12'21.48"N	91°6'16.14" E
3	25°12'19.56"N	91°6'13.56" E
4	25°12'15.36"N	91°6'21.78" E

The proposed mining area is on lease for a period of 40 years vide Deed of Lease made on the 12<sup>th</sup> September 2019, certified by Sub Registrar, South West Khasi Hills, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West and South West Khasi Hills(SF&T) Division, vide letter No.T/WSW/20/NOC(L)/347 dated Nongstoin the 11<sup>th</sup> March, 2021 and letter of Intent vide No.T/W&SW/ML/L.S/2021/156/599 dated Nongstoin, the 16<sup>th</sup> April 2021.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/134/2021/07 dated Shillong, the 29<sup>th</sup> September 2021 where it is mentioned that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/134/2021/2 dated Shillong, the 22<sup>nd</sup> September 2021. The Mining Plan has been prepared to extract limestone at 64344 MTPA with a project cost of Rs. 28.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve would be 643436 Tonnes with an average annual production of 64344(643436/10=64344) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 321636 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e. (643436-321636)=321800 Tonnes would be exhausted in further 5 years @64360 Tonnes per annum. Therefore, the life of the mine will be 10 years( five years in plan period + 5 years in conceptual period).

#### Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

- 1) According to provisions of Section 111[(2)] of *Metalliferous Mines Regulations, 1961* no working is permitted within a distance of *minimum 7.5 meters* from the boundary.
- 2) A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones, etc. carried by surface water channelized

through the Curtain drain. The deposited debris, spoils etc. are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.

- 3) Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
- 4) If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
- 5) In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
- 6) To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
- 7) CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
- 8) Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
- 9) GIS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
- 10) A board containing the name of Project, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be install in the entrance to the mining site.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

### **3.4 Proposal No.SIA/ML/MIN/232460/2021 submitted by Shri. Proman Khriam (M/S Rusaw limestone mine)**

The Project Proponent, Shri. Proman Khriam submitted online application vide proposal No.SIA/ML/MIN/232460/2021 for Environmental Clearance for Rusaw Limestone Mine of for an area of 0.8354 hectares. The proposal for mining of limestone will be used in kilns for manufacturing of lime used as building material and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Rusaw, Nongjri Elaka, P.O Pynursla, East Khasi Hills District, Meghalaya and toposheet Survey of India No. 780/16 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°10'51.40"N	91°46'03.04" E
2	25°10'51.47"N	91°46'04.78" E
3	25°10'46.66"N	91°46'02.45" E
4	25°10'47.03"N	91°46'00.14" E

The proposed mining area is on lease for a period of 30 years vide Lease Agreement certified by Public Notary, East Khasi Hills, Meghalaya on the 26<sup>th</sup> February 2021.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & RiBhoi (T) Division, Shillong, vide letter No.KH/8/NOC/limestone/41/Pt.IV/1810 dated Shillong the 23<sup>rd</sup> July, 2021 and Letter of Intent vide No.KH/8/ML/limestone/68/1854 dated Shillong the 27<sup>th</sup> July 2021.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/136/2021/07 dated

Shillong, the 28<sup>th</sup> September 2021 where it is mentioned that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No. DMR/MM/136/2021/02 dated Shillong, the 2<sup>nd</sup> September 2021. The Mining Plan has been prepared to extract limestone at 33675 MTPA with a project cost of Rs. 22.00 Lakhs and the operations will be open cast, semi mechanized method of mining.

As per the mining plan, the mineable reserves would be 33675 Tonnes with an average annual production of 33675 ( $336751/10=33675$ ) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 168197 Tonnes of the total mineable reserve will be worked out in first five years and the rest quantity of mineable reserve i.e. ( $336751-168197$ )=168554 Tonnes would be exhausted in further 5 years @ 33711 Tonnes. Therefore, the life of the mine will be 10 years (five years in plan period + five years in conceptual period).

### **Recommendation:**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. According to provisions of Section 111[(2)] of *Metalliferous Mines Regulations, 1961* no working is permitted within a distance of *minimum 7.5 meters* from the boundary.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones, etc. carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc. are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
4. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
5. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
6. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
9. GIS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.

10. A board containing the name of project, project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be install in the entrance to the mining site.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

### 3.5 Proposal No.SIA/ML/MIN/225520/2021 submitted by Shri. Markiroy Pdang (M/S Larung Limestone mine)

The Project Proponent, Shri. Markiroy Pdang submitted online application vide proposal No.SIA/ML/MIN/225520/2021 for Environmental Clearance for Larung Limestone Mine of for an area of 1.97 hectares. The proposal for mining of limestone will be used in kilns for manufacturing of lime used as building material and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Larung, Lumshnong, Elaka Narpuh, East Jaintia Hills District, Meghalaya and toposheet Survey of India No. 83C/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°10'50.9"N	92°24'29.6" E
2	25°10'47.0"N	92°24'33.4" E
3	25°10'44.8"N	92°24'30.6" E
4	25°10'45.6"N	92°24'28.2" E
5	25°10'45.5"N	92°24'25.8" E

The proposed mining area is on lease for a period of 35 years vide Deed of Lease certified by Public Notary, East Jaintia Hills, Meghalaya on the 21<sup>st</sup> June 2021.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai, vide letter No.JH/IR/F.C/RO/2019-20/985/B/287 dated Jowai the 17<sup>th</sup> May, 2021 and Letter of Intent vide No.JH/M.Pdang/M.L./I.S/2021-22/26/B/362 dated Jowai the 30<sup>th</sup> June, 2021.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/48/MM/Mining plan/2021-22/143 dated Jowai, the 31<sup>st</sup> August 2021 where it is mentioned that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No. DMO-J/48/MM/Mining Plan/2021-22/142 dated Jowai, the 27<sup>th</sup> August 2021. The Mining Plan has been prepared to extract limestone at 199275 MTPA with a project cost of Rs. 20.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves of limestone is of the order of 10, 50,000 MT. The production in the period of this mining plan will be around 9, 96,275 MT in 5 years. The balance reserves will be  $10,50,000 - 9,96,275 = 53,725$  MT. If the yearly production target is 1,99,270 MT, then the balance reserves will be sufficient for  $53,725 / 1,99,270 = 0.27$  years. Thus, total life of the mine is  $5 + 0.27 = 5.27$  or say 5 years.

#### Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> November 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental



Clearance to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. According to provisions of Section 111[(2)] of *Metalliferous Mines Regulations, 1961* no working is permitted within a distance of *minimum 7.5 meters* from the boundary.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones, etc. carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc. are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
4. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
5. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
6. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
9. GIS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
10. A board containing the name of project, project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be install in the entrance to the mining site.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

The meeting ended with a vote of thanks from the Chairman.



Member Secretary  
SEIAA  
Meghalaya, Shillong.

**Memo No. ML/SEIAA/Meeting/ Vol.IV/53/2021  
2021**

**Dated Shillong, the      Nov'**

Copy to :

- 1) Member, SEIAA, Meghalaya, Shillong for information.
- 2) File concern for record.



Member Secretary  
SEIAA  
Meghalaya, Shillong